

Energy Upgrades for Australian Homes

Paving the way for scalable, locally-led energy upgrades across Australia

Energy Upgrades for Australian Homes (EUAH) aims to enable energy upgrades for 1 million Australian homes by 2030. These upgrades will improve thermal comfort and manage energy bills whilst reducing energy usage and household emissions, helping Australians move towards a more sustainable future.

With rising energy costs, outdated housing, and increasing climate variability, community groups and local councils are eager to help residents improve household energy efficiency. However, the lack of guidance, resources, and scalable models makes launching and sustaining these programs challenging —particularly in a way that fits local community aspirations and housing characteristics, which can vary substantially across Australia.

EUAH is solving this. We're creating an online platform that equips program coordinators with the tools and resources needed to deliver localised home energy upgrades, making energy efficiency accessible to all Australians. By tackling the barriers to participation, financing, delivery and evaluation, we're accelerating the transition to energy-efficient, climate-resilient homes, and creating the framework to scale solutions nationally.



Household energy upgrades can potentially reduce energy consumption by

30-50%



and an energy costs saving of

20-40%

in 2022 dollars with the aim being an



average of

\$400-600

per house per year for currently poor performing homes.

Developing evidence and tools to enable collaborative place-based partnerships for scaling equitable home energy upgrades

Our unique approach

This three-year, applied research project is a collaboration between research institutions, community upgrade programs, governments, and industry stakeholders. We're taking a holistic, systems innovation approach, ensuring the platform, tools and resources are fit-for-purpose, practical, localised and scalable. Taking a holistic, systems approach to ensure the platform, tools and resources are fit-for-purpose, practical and scalable:



Grounded in social and behavioural insights:

Understanding household decision-making and community readiness to enhance participation and uptake.



Place-based applied research

Working directly with communities to understand needs for different climates, housing types, and regions.



End-to-end program delivery design

Developing best-practice community implementation models, policy and regulation insights, and understanding building stock and supply chains to help program organisers enhance current, or establish new, upgrade programs.

Outcomes

Scalable solutions

Develop a flexible, community-focused program model adaptable to different ownership structures, climates, and regional needs.

Empowered communities

Equip community groups with the knowledge and resources to implement successful energy upgrade programs.

Climate resilience & comfort

Enhance household comfort and resilience to extreme weather through efficient heating, cooling, and electrification.

Lower energy costs & emissions

Achieve energy savings of up to 40% per household while significantly reducing residential emissions.

Community programs

To provide practical insights that shape the platform's development and ensure it is adaptable, effective, and relevant to the diverse needs of program coordinators, EUAH is developing and testing the platform with community upgrade programs, including:



Geelong Sustainability's Electric Homes Program (VIC)

Geelong Sustainability's Electric Homes Program is providing high quality, efficient energy upgrades to a wide variety of households across the Greater Geelong community.



Climate: urban, temperate



5 Local Government Areas



1,000 households



Housing segment: all types, tenures and incomes

Energy efficiency retrofit pilot, Anangu Pitjantjatjara Yankunytjatjara (APY) Lands (SA)

The South Australian Government and UniSA's Energy Efficiency Retrofit Pilot aims to produce a practical model to deliver effective energy efficiency upgrades for remote arid housing.



Climate: remote, arid desert



6 households



Public housing, low-income, Indigenous communities

Partner with us

We're looking for collaborators who want to join us in enabling energy-efficient, climate-resilient, and affordable homes for Australians. If you're an investor, policymaker, industry leader, or community group looking to enable, support, pilot, or scale innovative approaches to household energy upgrades, we'd love to hear from you.

Current partners



CLIMATEKIC
Australia



Government of South Australia
Department for Energy and Mining



MONASH
University



UNSW
SYDNEY



University of
South Australia

Contact us

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Australian Government
Department of Industry,
Science and Resources

Cooperative Research
Centres Program